

## EAST Search History

| Ref # | Hits | Search Query   | DBs                       | Default Operator | Plurals | Time Stamp          |
|-------|------|--|---------------------------|------------------|---------|---------------------|
| L1    | 665  | (display near3 battery near3 powered)  | US-PGPUB;<br>USPAT        | OR               | ON      | 2009/04/22<br>17:38 |
| L2    | 45   | 1 and (battery same (refreshed or discharged))   | US-PGPUB;<br>USPAT        | OR               | ON      | 2009/04/22<br>17:38 |
| L3    | 1298 | (battery adj3 pack) and (battery near3 display)  | US-PGPUB;<br>USPAT        | OR               | ON      | 2009/04/22<br>17:40 |
| L4    | 448  | 3 and (battery same (refreshed or discharged))   | US-PGPUB;<br>USPAT        | OR               | ON      | 2009/04/22<br>17:40 |
| L5    | 15   | 3 and (battery same (refreshed))   | US-PGPUB;<br>USPAT        | OR               | ON      | 2009/04/22<br>17:41 |
| L6    | 187  | (display near battery near (power or charge or electri\$7))  | US-PGPUB;<br>USPAT        | OR               | ON      | 2009/04/22<br>17:43 |
| L7    | 39   | 6 and "320".clas.  | US-PGPUB;<br>USPAT        | OR               | ON      | 2009/04/22<br>17:43 |
| L8    | 947  | battery adj3 power adj3 display  | US-PGPUB;<br>USPAT        | OR               | ON      | 2009/04/22<br>17:44 |
| L9    | 101  | 8 and (battery same (refreshed or discharged))   | US-PGPUB;<br>USPAT        | OR               | ON      | 2009/04/22<br>17:44 |
| L10   | 0    | 8 and (battery same (forc\$7 near3 discharged))  | US-PGPUB;<br>USPAT        | OR               | ON      | 2009/04/22<br>17:44 |
| L11   | 10   | 8 and (battery same (refreshed))   | US-PGPUB;<br>USPAT        | OR               | ON      | 2009/04/22<br>17:45 |
| L12   | 59   | 8 and "320".clas.  | US-PGPUB;<br>USPAT        | OR               | ON      | 2009/04/22<br>17:45 |
| L13   | 5    | "6456041"  | US-PGPUB;<br>USPAT        | OR               | ON      | 2009/04/22<br>18:03 |
| S1    | 2599 | 320/ 134,136,150,152,154.ccls. or 324/433,435,441.ccls.  | US-PGPUB;<br>USPAT        | OR               | ON      | 2008/08/19<br>11:21 |
| S2    | 244  | S1 and (lithium same battery) and ((measur\$3 or sens\$3 or detect\$) near temperature) and ((measur\$3 or sens\$3 or detect\$) near voltage)  | US-PGPUB;<br>USPAT        | OR               | ON      | 2008/08/19<br>11:22 |
| S3    | 3    | S2 and (forc\$4 near discharge)  | US-PGPUB;<br>USPAT        | OR               | ON      | 2008/08/19<br>11:23 |
| S4    | 14   | ("3599071"   "5563496"   "5581170"   "5619430"   "5703466"   "5731685"   "5760570"   "5828202"   "5864224"   "5990663"   "6118255"   "6163131"   "6184659"   "6322921").PN. OR ("6925400").URPN. | US-PGPUB;<br>USPAT; USOCR | OR               | ON      | 2008/08/19<br>11:31 |
| S5    | 12   | ("3599071"   "5563496"   "5581170"   "5619430"   "5703466"   "5731685"   "5828202"   "5864224"   "6118255"   "6184659"   "6322921").PN. OR ("6714882").URPN.                                     | US-PGPUB;<br>USPAT; USOCR | OR               | ON      | 2008/08/19<br>11:39 |

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|-----|-----|---|---|----|----|---------------------|
| S6  | 2   | ("5539318"   "5703465").PN. OR ("6008626").URPN.  | US-PGPUB;<br>USPAT; USOCR                   | OR | ON | 2008/08/19<br>11:42 |
| S7  | 31  | S1 and (forc\$4 near discharge)   | US-PGPUB;<br>USPAT                          | OR | ON | 2008/08/19<br>11:43 |
| S8  | 2   | jp-2000270494-\$.did.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR | ON | 2008/08/19<br>11:47 |
| S9  | 2   | jp-09298844-\$.did.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR | ON | 2008/08/19<br>11:47 |
| S10 | 2   | jp-2002056900-\$.did.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR | ON | 2008/08/19<br>11:47 |
| S11 | 2   | jp-2000078250-\$.did.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR | ON | 2008/08/19<br>11:47 |
| S12 | 0   | S2 and memory and "display."  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR | ON | 2008/08/19<br>11:50 |
| S13 | 75  | S2 and memory and display   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT | OR | ON | 2008/08/19<br>11:50 |
| S14 | 12  | (forc\$4 near discharge) and ((lithium same battery) and ((measur\$3 or sens\$3 or detect\$) near temperature) and ((measur\$3 or sens\$3 or detect\$) near voltage)    | US-PGPUB;<br>USPAT                          | OR | ON | 2008/08/19<br>12:38 |
| S15 | 12  | ("3599071"   "5563496"   "5581170"   "5619430"   "5703466"   "5731685"   "5828202"   "5864224"   "6118255"   "6184659"   "6322921").PN. OR ("6714882").URPN.            | US-PGPUB;<br>USPAT; USOCR                   | OR | ON | 2008/08/19<br>12:39 |
| S16 | 407 | (battery near discharge) and ((lithium same battery) and ((measur\$3 or sens\$3 or detect\$) near temperature) and ((measur\$3 or sens\$3 or detect\$) near voltage)    | US-PGPUB;<br>USPAT                          | OR | ON | 2008/08/19<br>12:41 |
| S17 | 56  | ((lithium same battery) and ((battery near discharge) same ((measur\$3 or sens\$3 or detect\$) near temperature)) and ((measur\$3 or sens\$3 or detect\$) near voltage) | US-PGPUB;<br>USPAT                          | OR | ON | 2008/08/19<br>12:42 |
| S18 | 24  | S17 and (display or lcd)  | US-PGPUB;<br>USPAT                          | OR | ON | 2008/08/19<br>12:43 |
| S19 | 32  | S17 not S18   | US-PGPUB;<br>USPAT                          | OR | ON | 2008/08/19<br>12:48 |

|     |      |  |                           |    |    |                     |
|-----|------|--|---------------------------|----|----|---------------------|
| S20 | 0    | ((forc\$4 near discharge) and "3200". clas.  | US-PGPUB;<br>USPAT        | OR | ON | 2008/08/19<br>12:52 |
| S21 | 69   | ((forc\$4 near discharge) and "320". clas.   | US-PGPUB;<br>USPAT        | OR | ON | 2008/08/19<br>12:52 |
| S22 | 27   | S21 and voltage and temperature  | US-PGPUB;<br>USPAT        | OR | ON | 2008/08/19<br>12:53 |
| S23 | 742  | ("320". clas. or "324". clas.) and (display same (maintenance discharging))  | US-PGPUB;<br>USPAT        | OR | ON | 2008/08/19<br>13:02 |
| S24 | 202  | S23 and (temperature same voltage same discharg\$4)  | US-PGPUB;<br>USPAT        | OR | ON | 2008/08/19<br>13:02 |
| S25 | 54   | S24 and lithium  | US-PGPUB;<br>USPAT        | OR | ON | 2008/08/19<br>13:02 |
| S26 | 298  | ("320". clas. or "324". clas.) and (lithium same discharge) and (temperature same voltage) and (display or notification of indicator)                          | US-PGPUB;<br>USPAT        | OR | ON | 2008/08/19<br>13:24 |
| S27 | 182  | S26 and memory   | US-PGPUB;<br>USPAT        | OR | ON | 2008/08/19<br>13:26 |
| S28 | 16   | ("5703463"   "5825155"   "5850136"   "5903131"   "5963019"   "5986865"   "5998967"   "6020722"   "6031302"   "6046575"   "6051954").PN. OR ("6288713"). URP.N. | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2008/08/19<br>14:02 |
| S29 | 72   | ("320". clas. or "324". clas.) and (switch near discharge) and (temperature same voltage) and (display or notification of indicator)                           | US-PGPUB;<br>USPAT        | OR | ON | 2008/08/19<br>14:10 |
| S30 | 0    | ((switch of forced or self) near discharge) and (overvoltage) and (first adj temperature) and (lithium adj battery)  | US-PGPUB;<br>USPAT        | OR | ON | 2008/08/19<br>14:20 |
| S31 | 0    | ((switch of forced or self) near discharge) and (overvoltage) and (first adj temperature) and (lithium)  | US-PGPUB;<br>USPAT        | OR | ON | 2008/08/19<br>14:20 |
| S32 | 8    | ((switch of forced or self) near discharge) and (first adj voltage) and (first adj temperature) and (lithium)  | US-PGPUB;<br>USPAT        | OR | ON | 2008/08/19<br>14:20 |
| S33 | 2    | 320/ 134,136,150,152,154.ccls. and (lithium same (fault or abnormal) same (display or lod))  | US-PGPUB;<br>USPAT        | OR | ON | 2008/08/19<br>16:03 |
| S34 | 36   | 320/ 134,136,150,152,154.ccls. and (((fault or abnormal) same (display or lod))  | US-PGPUB;<br>USPAT        | OR | ON | 2008/08/19<br>16:03 |
| S35 | 40   | ((YASUAKI) near2 (MAKINO)).INV.  | US-PGPUB;<br>USPAT        | OR | ON | 2008/08/19<br>17:19 |
| S36 | 4993 | lithium and (nickel adj oxide)   | US-PGPUB;<br>USPAT        | OR | ON | 2008/08/19<br>17:20 |
| S37 | 2403 | lithium same (nickel adj oxide)  | US-PGPUB;<br>USPAT        | OR | ON | 2008/08/19<br>17:20 |
| S38 | 968  | lithium same (nickel adj oxide) same electrode   | US-PGPUB;<br>USPAT        | OR | ON | 2008/08/19<br>17:20 |

|     |      |   |                 |    |    |                  |
|-----|------|---|-----------------|----|----|------------------|
| S39 | 86   | (lithium near battery) same (nickel adj oxide) same electrode   | US-PGPUB; USPAT | OR | ON | 2008/08/19 17:21 |
| S40 | 3    | S39 and (LCD or display)  | US-PGPUB; USPAT | OR | ON | 2008/08/19 17:21 |
| S41 | 49   | memory same (forced adj discharge)  | US-PGPUB; USPAT | OR | ON | 2008/08/19 18:08 |
| S42 | 5    | S41 and battery   | US-PGPUB; USPAT | OR | ON | 2008/08/19 18:08 |
| S43 | 5    | (forc\$4 adj discharge) near (end\$3 or finish\$3 or complet\$3) same (indicat\$3 or notificat\$3 or display\$3 or LCD) | US-PGPUB; USPAT | OR | ON | 2008/08/20 10:11 |
| S44 | 67   | (forc\$4 adj discharge) and (end\$3 or finish\$3 or complet\$3) near (indicat\$3 or notificat\$3 or display\$3 or LCD)  | US-PGPUB; USPAT | OR | ON | 2008/08/20 10:12 |
| S45 | 333  | "320".clas. and (end\$3 or finish\$3 or complet\$3) near (indicat\$3 or notificat\$3 or display\$3 or LCD)              | US-PGPUB; USPAT | OR | ON | 2008/08/20 10:14 |
| S46 | 109  | S45 and lithium   | US-PGPUB; USPAT | OR | ON | 2008/08/20 10:15 |
| S47 | 32   | S46 and ((forc\$3 or self or switch\$3) near discharge)   | US-PGPUB; USPAT | OR | ON | 2008/08/20 10:15 |
| S48 | 0    | "320".clas. and ((forc\$3 or self or switch\$3) near discharge) same (display adj message)                              | US-PGPUB; USPAT | OR | ON | 2008/08/20 10:20 |
| S49 | 6    | "320".clas. and ((forc\$3 or self or switch\$3) near discharge) and (display adj message)                               | US-PGPUB; USPAT | OR | ON | 2008/08/20 10:20 |
| S50 | 1    | lithium same ((forc\$3 or self or switch\$3) near discharge) and (display adj message)                                  | US-PGPUB; USPAT | OR | ON | 2008/08/20 10:21 |
| S51 | 7    | "320".clas. and (discharge) same (display adj message)  | US-PGPUB; USPAT | OR | ON | 2008/08/20 10:22 |
| S52 | 7    | "320".clas. and (maintenance or service) same (display adj message)   | US-PGPUB; USPAT | OR | ON | 2008/08/20 10:25 |
| S53 | 80   | "320".clas. and (display adj message)   | US-PGPUB; USPAT | OR | ON | 2008/08/20 10:28 |
| S54 | 19   | S53 and lithium   | US-PGPUB; USPAT | OR | ON | 2008/08/20 10:30 |
| S55 | 2901 | (battery adj pack) same display   | US-PGPUB; USPAT | OR | ON | 2008/08/20 10:45 |
| S56 | 621  | S55 and lithium   | US-PGPUB; USPAT | OR | ON | 2008/08/20 10:45 |
| S57 | 215  | S56 and (measur\$3 or detect\$3 or sens\$3) near voltage  | US-PGPUB; USPAT | OR | ON | 2008/08/20 10:45 |
| S58 | 110  | S57 and (measur\$3 or detect\$3 or sens\$3) near temperature  | US-PGPUB; USPAT | OR | ON | 2008/08/20 10:46 |
| S59 | 26   | S58 and ((forc\$3 or self or switch\$3) near discharge)   | US-PGPUB; USPAT | OR | ON | 2008/08/20 10:46 |

|     |      |  |                           |    |    |                     |
|-----|------|--|---------------------------|----|----|---------------------|
| S60 | 163  | (notif\$8 or display\$3) same (forc\$4 near discharg\$3)   | US-PGPUB;<br>USPAT        | OR | ON | 2009/01/05<br>15:32 |
| S61 | 10   | S60 and "320".clas.  | US-PGPUB;<br>USPAT        | OR | ON | 2009/01/05<br>15:32 |
| S62 | 4    | S60 and "324".clas.  | US-PGPUB;<br>USPAT        | OR | ON | 2009/01/05<br>16:20 |
| S63 | 1    | "10581554"   | US-PGPUB;<br>USPAT        | OR | ON | 2009/01/16<br>18:34 |
| S64 | 9    | (forc\$5 near discharg\$3) same (battery) same (notif\$8 or display or LCD)  | US-PGPUB;<br>USPAT        | OR | ON | 2009/01/16<br>19:29 |
| S65 | 26   | (forc\$5 near discharg\$3) same (notif\$8 or display or LCD) and (battery)   | US-PGPUB;<br>USPAT        | OR | ON | 2009/01/16<br>19:33 |
| S66 | 754  | ((notif\$8 or display or LCD) near power\$4) near3 (battery)   | US-PGPUB;<br>USPAT        | OR | ON | 2009/01/16<br>19:43 |
| S67 | 34   | S66 and "320".clas.  | US-PGPUB;<br>USPAT        | OR | ON | 2009/01/16<br>19:43 |
| S68 | 9    | S67 and (battery adj pack)   | US-PGPUB;<br>USPAT        | OR | ON | 2009/01/16<br>19:43 |
| S69 | 25   | S67 not S68  | US-PGPUB;<br>USPAT        | OR | ON | 2009/01/16<br>19:45 |
| S70 | 774  | ((notif\$8 or display or LCD)) near3 (battery near powered)  | US-PGPUB;<br>USPAT        | OR | ON | 2009/01/16<br>19:56 |
| S71 | 575  | ((notif\$8 or display or LCD)) near3 (battery adj powered)   | US-PGPUB;<br>USPAT        | OR | ON | 2009/01/16<br>19:56 |
| S72 | 40   | S71 and (battery adj pack)   | US-PGPUB;<br>USPAT        | OR | ON | 2009/01/16<br>19:56 |
| S73 | 10   | "320".clas. and (display same li-ion)  | US-PGPUB;<br>USPAT        | OR | ON | 2009/01/16<br>20:01 |
| S74 | 120  | "320".clas. and (display same lithium)   | US-PGPUB;<br>USPAT        | OR | ON | 2009/01/16<br>20:02 |
| S75 | 2    | "320".clas. and (display near3 lithium)  | US-PGPUB;<br>USPAT        | OR | ON | 2009/01/16<br>20:02 |
| S76 | 5    | "320".clas. and (display near4 lithium)  | US-PGPUB;<br>USPAT        | OR | ON | 2009/01/16<br>20:02 |
| S77 | 1189 | "320".clas. and (display near4 battery)  | US-PGPUB;<br>USPAT        | OR | ON | 2009/01/16<br>20:02 |
| S78 | 20   | "320".clas. and (powered near3 display near4 battery)  | US-PGPUB;<br>USPAT        | OR | ON | 2009/01/16<br>20:02 |
| S79 | 53   | ("3660759"   "3992228"   "4289836"   "4702563"   "4702564"   "4716354"   "4910630"   "4962347"   "5015544"   "5032825"   "5156931"   "5188869"   "5206097"   "5216371"   "5223003"   "5248929"   "5250905"   "5389458"   "5458992"   "5464709"   "5478665"   "5491038"   "5494496"   "5537024"   "5541489"   "5541490"   "5557188"   "5565759"   "5596278"   "5600230"   "5606242"   "5607790"   "5645949" | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2009/01/16<br>20:04 |

|     |      |  |                    |    |    |                     |
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|     |      | "5654640"   "5731686"  <br>"5737114"   "5747189"   "5760588"<br>  "5789100"   "5825156"  <br>"5841285"   "5849046"   "5856040"<br>  "5990664"   "5999410").PN. OR<br>("6483275").URPN. |                    |    |    |                     |
| S80 | 3    | (lithium same (forc\$5 near<br>discharged)) and (notification or<br>display)   | US-PGPUB;<br>USPAT | OR | ON | 2009/04/20<br>16:24 |
| S81 | 0    | (li-ion same (forc\$5 near<br>discharged)) and (notification or<br>display)  | US-PGPUB;<br>USPAT | OR | ON | 2009/04/20<br>16:25 |
| S82 | 3    | (lithium same (forc\$5 near<br>discharged)) and (notification or<br>display or LCD)  | US-PGPUB;<br>USPAT | OR | ON | 2009/04/20<br>16:25 |
| S83 | 33   | ((battery or cell) same (forc\$5 near<br>discharged)) and (notification or<br>display or LCD)  | US-PGPUB;<br>USPAT | OR | ON | 2009/04/20<br>16:26 |
| S84 | 23   | ((battery or cell) same (forc\$5 near<br>discharged)) and "320".clas.  | US-PGPUB;<br>USPAT | OR | ON | 2009/04/20<br>16:42 |
| S85 | 128  | ((battery or cell) same (forc\$5 near<br>discharged))  | US-PGPUB;<br>USPAT | OR | ON | 2009/04/20<br>17:10 |
| S86 | 105  | S85 not S84  | US-PGPUB;<br>USPAT | OR | ON | 2009/04/20<br>17:10 |
| S87 | 33   | S86 and lithium  | US-PGPUB;<br>USPAT | OR | ON | 2009/04/20<br>17:10 |
| S88 | 33   | (battery same (forc\$6 near discharg<br>\$3)) and (battery same (notif\$5 or<br>display))  | US-PGPUB;<br>USPAT | OR | ON | 2009/04/22<br>17:17 |
| S89 | 1630 | (battery same power near (notif\$5 or<br>display))   | US-PGPUB;<br>USPAT | OR | ON | 2009/04/22<br>17:29 |
| S90 | 3    | S89 and (forc\$6 near discharg\$3)   | US-PGPUB;<br>USPAT | OR | ON | 2009/04/22<br>17:29 |

4/ 22/ 2009 7:21:30 PM

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